Case Docket No. KANEKO.014AUS

I hereby certify that this correspondence and all marked attachments are being deposited with the United States Postal Service as first

class mail in an envelope addressed to: Commissioner for Patents.

October 24, 2006

Yasuo Muramatsu, Reg. No. 38,68

P.O. Box 1450, Alexandria, VA 22313-1450, on

Date: October 24, 2006

Page 1

re application of: Minoru Umemoto et al.

App. No. :

10/585,707

Filed

July 19, 2006

For

PROCESS OF **FORMING** ULTRAFINE

CRYSTAL LAYER, MACHINE COMPONENT ULTRAFINE CRYSTAL LAYER FORMED THE ULTRAFINE CRYSTAL LAYER FORMING PROCESS...

Examiner:

Unknown

Art Unit

**ASSISTANT COMMISSIONER FOR PATENTS** 

Sir:

Transmitted herewith is a document for the above-identified utility application.

() An extension of time to respond for \* month(s) is hereby requested.

Time Extension Fee:

WASHINGTON, D.C. 20231

- one month (\$120 large entity)
- two months (\$450 large entity)
- three months (\$1020 large entity)

Enclosed are:

- a copy of International Preliminary Examination Report issued by Japanese Patent Office.
- Return prepaid postcard.

Registration No. 38,684

Attorney of Record

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Irvine, California 92618

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TRS-KN14.002 102406

### From the INTERNATIONAL BUREAU

### PCT

OF COPIES OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPTER I OR CHAPTER II
OF THE PATENT COOPERATION TREATY)

(PCT Rules 44bis.3(c) and 72.2)

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Го:		
KANEKO, Naohisa	and the second second	

KANEKO, Naohisa
Kaneko International Patent Office
Aioi Insurance Toyohashi Bldg., 7th Floor
92 Ote-cho, Toyohashi-City, Aichi 4400805
JAPON

ZIII LITATIKS

ZIII 9, 08

Date of mailing (day/month/year) 31 August 2006 (31.08.2006)	Kaneko&H
Applicant's or agent's file reference 20041309PCT	IMPORTANT NOTIFICATION
International application No. PCT/JP2004/018650	International filing date (day/month/year) 14 December 2004 (14.12.2004)
Applicant TOYOHASH	I UNIVERSITY OF TECHNOLOGY et al

١.	Transmittal (	of the	translation	ţo	the applicant.
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The International Bureau transmits herewith a copy of the English translation of the international preliminary patentability (Chapter I).	report on
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The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).

2. Transmittal of the copy of the translation to the designated or elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

None

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AE, AG, AL, AM, AP, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EA, EC, EE, EG, EP, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO
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### PATENT COOPERATION TREATY

## **PCT**

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 20041309PCT	FOR FURTHER ACTION	See item 4 below						
International application No. PCT/JP2004/018650	International filing date (day/month/year) 14 December 2004 (14.12.2004)	Priority date (day/month/year) 21 January 2004 (21.01.2004)						
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237								
Applicant TOYOHASHI UNIVERSITY OF TE	ECHNOLOGY							

1.	This international preliminary International Searching Autho		Chapter I) is issued by the International Bureau on behalf of the 1).					
2.	. This REPORT consists of a total of 4 sheets, including this cover sheet.							
	In the attached sheets, any refeto the international preliminary		on of the International Searching Authority should be read as a reference Chapter I) instead.					
3.	This report contains indication	s relating to the following	g items:					
	Box No. I	Basis of the report						
	Box No. Π	Priority						
	Box No. III	Non-establishment of applicability	of opinion with regard to novelty, inventive step and industrial					
	. Box No. IV	Lack of unity of inve	ention					
	Box No. V  Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
Box No. VI Certain documents cited								
	Box No. VII	Certain defects in the	e international application					
Box No. VIII Certain observations on the international application								
4.	The International Bureau will not, except where the applican date (Rule 44bis .2).	communicate this report to makes an express reques	o designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but at under Article 23(2), before the expiration of 30 months from the priority					
			Date of issuance of this report 22 August 2006 (22.08.2006)					
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland			Authorized officer  Masashi Honda					
	nile No. +41 22 338 82 70		e-mail: pt08@wipo.int					

#### PATENT COOPERATION TREATY

TRANSLATION From the INTERNATIONAL SEARCHING AUTHORITY PCT To: WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION See paragraph 2 below 20041309PCT Priority date (day/month/year) International filing date (day/month/year) International application No. 21.01.2004 14.12.2004 PCT/JP2004/018650 International Patent Classification (IPC) or both national classification and IPC Applicant TOYOHASHI UNIVERSITY OF TECHNOLOGY This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. III Lack of unity of invention Box No. IV Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Certain defects in the international application Box No. VII Box No. VIII Certain observations on the international application **FURTHER ACTION** 2. If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. 3. Authorized officer Name and mailing address of the ISA/JP

Telephone No.

Facsimile No.

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/018650

Box	No. I	Basis of this opinion
1.	With filed.	regard to the language, this opinion has been established on the basis of the international application in the language in which it was unless otherwise indicated under this item.
		This opinion has been established on the basis of a translation from the original language into the following language.  which is the language of a translation furnished for the purposes of international search (under
	-	Rule 12.3 and 23.1(b)).
2.	With	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed
	inver	ntion, this opinion has been established on the basis of:
	a.	type of material
		a sequence listing
		table(s) related to the sequence listing
	b.	format of material
		in written format
		in computer readable form
	c.	time of filing/furnishing
	<b></b>	contained in the international application as filed.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
3.		In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Addi	tional comments:
		$\cdot$
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## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/018650

	easoned statement lations and explan					velty, invent	ive step or it	dustrial a	pplicabil ————————————————————————————————————	lity;
I. Statement					<del></del>				-	
* Novelty (N)		Claims	1-15							YE
										ио
Inventive ste	n (IS)	Claire.	1-15					•		YE
										NO
T. donast Laur									7 - 1	
industriai apį	olicability (IA)	<u>-</u>	1-15							YE: NO
		_	-		- -					
2. Citations and exp	planations:									
Claims 1 - The	inventions o	of claim	ıs 1-15 d	concern t	he poi	nt of givi	ng the m	achinir	ig surl	facë a
described in	strain when r n any of the c	nacnine iocume	e proces ent cited	in the IS	SR and	is not ob	ovious to	a persc	n skil	led in
the art.										
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